5. Production rate for the second year is 12 BOPD.

6. Using the formula, the royalty rate is calculated at 10.1 percent. Since the 6.9 percent second year royalty rate is less than 10.1 percent, the applicable royalty rate for third year is 6.9 percent.

$$10.1\% = 0.5 + (0.8 \times 12)$$

7. Production rate third year is 7 BOPD.

8. Using the formula, the royalty rate is calculated at 6.1 percent. Since the 6.1 percent third year royalty rate is less than the qualifying (maximum) rate of 6.9 percent, the royalty rate for the fourth year is 6.1 percent.

$$6.1\% = 0.5 + (0.8 \times 7)$$

9. Production rate for the fourth year is 15 BOPD.

10. Since the production is at the 15 BOPD threshold, the royalty rate would be the lease royalty rate. However, since the 6.9 percent second year royalty rate is less than the lease rate, the royalty rate for the fifth year is 6.9 percent.